

# IMPROVED SYSTEM AND METHOD FOR CONCURRENTLY SUPPORTING MULTIPLE INDEPENDENT VIRTUAL MACHINES

## Abstract

An improved system for concurrently running multiple virtual machines on a single processor. Each virtual machine being activated only during an assigned time slice or partition so as to isolate each of the concurrently running virtual machines from each other. The system having a power management mode and/or a partition reassignment mode. The power management feature placing the processor into a reduced power mode when a particular virtual machine has nothing to do during its assigned partition. In one embodiment, when an application has not been loaded into a given virtual machine, the processor is placed into a reduced power mode during the partition assigned to the given virtual machine. In one embodiment, the virtual machine is a JAVA Virtual Machine.